

City and County of the City of Chester

ANNUAL REPORT

TO THE MAYOR, ALDERMEN AND COUNCILLORS OF THE CITY AND COUNTY OF THE CITY OF CHESTER

on the

HEALTH OF THE CITY
IN 1939

by

J. W. LOBBAN, M.A., M.D., D.P.H. MEDICAL OFFICER OF HEALTH.





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PUBLIC HEALTH COMMITTEE, 1938-39.

- Councillor R. W. Dunn. - Councillor E. E. Ashton. Deputy-Chairman

Members:

Councillor S. Jane Dunne. ALDERMAN A. S. DUTTON. EDITH BATY. F. D. PRICE. , , T. J. Davies. CHARLES SCONCE. 5.1 R. Matthews Jones. COUNCILLOR A. CHARMLEY. 9.9 DAVID R. OWEN. A. Davies. W. E. Pycraft. T. M. Hooson. 9.9 9.9 T. D. GILBRIDE.

The Mayor (Alderman Phyllis Brown) is an ex-officio member of all Committees of the Council.

STAFF OF PUBLIC HEALTH DEPARTMENT.

Medical Officer of Health, School J. W. Lobban, M.A., M.D., Medical Officer, Medical Superin- D.P.H. tendent, Corporation Hospitals, and Tuberculosis Officer.

Deputy Medical Officer of Health, H. E. C. Sutton, M.B., Ch.B., and Deputy School Medical Offi- D.P.H. cer, etc.

Chief Sanitary Inspector, Food In- *+S. H. Moore, F.S.I.A., F.R.S.I. spector, Factory Acts, Supervision, etc.

Additional Sanitary Inspector, Food *+W. B. Calder, M.S.I.A., C.R.S.I. Inspector, etc.

*District Additional Sanitary In- *†W. H. Wilkinson, Cert. S.I.B., M.S.I.A. spector.

District Additional Sanitary In-+G. E. Jarvis, Cert. S.I.B., M.S.I.A., M.R.S.I. spector.

Assistant District Inspector H. J. Hewitt, M.S.I.A.

Housing Inspector *M. G. H. Tresidder, C.R.S.I.

Abattoir Attendant and Assistant *J. H. Withington, M.S.I.A. Meat Inspector

Superintendent Health Visitor and †Miss M. H. Beattie, S.R.N., Assistant Inspector of Midwives. H.V.C.

PUBLIC HEALTH OFFICERS—continued.

lealth Visitors	†Miss E. Brayne, S.R.N. †Miss L. Robson, A.R.San.I., M.I.H. †Mrs. A. E. Austin, S.R.N. †Miss Z. K. Wilkins, S.R.N., H.V.C. †Miss M. A. Owen, S.R.N., H.V.C.
Chief Clerk	F. Thomas.
Assistant Clerk	§T. R. Blythe, A.M.S.I.A.
*Assistant Clerk	J. Adamson.
Assistant Clerk (Part time, School Medical)	R. W. Hudson.
Assistant Clerk and Laboratory Attendant (Part time, School Medical) Matron, Isolation Hospital	C. Stoddard.

CITY HOSPITAL.

*Senior Resident Medical Officer	H. A. Freeman, M.R.C.S.
Consulting Surgeons	J. N. Adam, M.B., Ch.B., F.R.C.S.E.
	A. W. Holgate, M.S., F.R.C.S.
Consulting Physician	A. B. Paul, M.A., M.B., B.Ch.
Consulting Gynaecologist	J. G. Wigley, M.A., M.B., B.Ch., F.R.C.S.
Consulting Ear, Nose and Throat Surgeon.	A. W. McCay, M.B., Ch.B., F.R.C.S.E.
*Consulting Radiologist	R. S. Topham, M.B., Ch.B., D.M.R.E., D.P.H.
Consulting Radiologist	R. F. Innes, M.B., Ch.B., D.M.R.E.
Consulting Orthopaedic Surgeon	G. T. Partridge, M.A., M.B., B.Ch., F.R.C.S.
Consulting Ophthalmic Surgeon	E. F. Wilson, M.B., B.Ch., B.A.O.
Consulting Dental Surgeon	E. N. Sterndale Bennett, L.D.S.
Steward	E. Bennion.
Matron	Miss Moss
Almoner	Miss Hyde
Radiographer	Miss Pugh

[†] Certificate Royal Sanitary Institute, Meat and Food Inspection.

^{*} Certificate Liverpool University, Meat and Food Inspection.

^{\$} Certificate, Liverpool University, Sanitary Science.

‡ Certificate Central Midwives Board.

• Serving with II.M. Forces.

To the Chairman and Members of the

Public Health Committee.

LADIES AND GENTLEMEN,

I have the honour to present my report upon the health of the City in 1939.

The vital statistics are based upon figures supplied by the Registrar General and can be studied in detail in the report.

The report is abbreviated owing to the war, but it will be seen that a considerable volume of work has been carried out by the Department.

The staff has responded well to the extra duties involved in Civil Defence and I take this opportunity of paying tribute to their continued loyalty and support.

I am,

Your obedient Servant,

J. W. LOBBAN,

Medical Officer of Health.

City and County of the City of Chester.

STATISTICS AND SOCIAL CONDITIONS OF AREA.

Area in Acres			
1 optilation (Registrat-General) in fidule of 1939		45,000	
Number of inhabited houses end of 1939 from Rateable Value		oks 11	1,888
Sum represented by a penny rate			
represented by a penny rate			,,500
The following are extracts from the vital	statistics	of the ye	ar—
The estimated population of the City at	the midd	le of 193	,9 as
given by the Registrar-General was 44,280 for the	ne birth ra	ate and 45	5,090
for the death rate.		Rate per l	1,000
Total. M.		populatio	ii.
Live Births	Bir	th Rate	15.6
Legitimate 333 323			
Illegitimate 24 15			
Still Births—Rate per 1,000 total births, 45.3.			
Death Rate—Deaths from diseases and accide	nts of pr	regnancy	and
parturition:—			
	Deaths. (ate per 1,000 live&still bi	total rths).
from sepsis	I	1.3	
from other causes	3	4.1	
Total	4	5.4	
	_	community and the service of the ser	
Death Rates of infants under one year of age:			
All infants per 1,000 live births			מ לל
Legitimate infants per 1,000 legitimate bir			
Illegitimate infants per 1,000 illegitimate			
	Number.	Rate.	
Deaths from cancer (all ages)	70	1.5	
Deaths from measles (all ages)	О	0.00	
Deaths from whooping cough (all ages)	О	0.00	
Deaths from diarrhoea (under 2 years)	3	0.06	

THE BIRTH RATE.

The birth rate shows an increase of 1.1 from that of 1938, being 15.6 compared with 14.5 in 1938. The figures for the last five years are as follows:—

	England and Wales.	Smaller Towns.	Chester.
1935	14.7	14.8	14.0
1936	14.8	15.0	15.1
1937	14.9	15.3	14.7
1938	15.1	15.4	14.5
1939	15.0	15.6	15.6

There were 33 still births registered in the City in 1939 belonging to Chester, giving a rate of 45.3p er 1,000 total births.

INFANT DEATH RATE.

The infant death rate for the year is 77.3 per 1,000 live births, an increase of 3.0 from last year. There were 54 deaths in infants under 1 year compared with 48 in 1938.

30 of these deaths were due to prematurity or congenital debility and 16 were due to pneumonia.

The position of Chester is shown in the following table:—

	England and Wales.	Smaller Towns.	• Chester.
1933	64	56	67.7
1934	59	53	71.8
1935	57	55	75.8
1936	59	55	51.3
1937	55	58	59.6
1938	53	51	74-3
1939	50	40	77.3

GENERAL DEATH RATE.

The deaths of Chester residents in 1939 numbered 611 giving a death rate of 13.8 compared with 14.0 in 1938.

157 deaths occurred in the age group 75 years and over, representing 25.6 per cent. of the total deaths.

140 deaths occurred in the age group 65-75 years, representing 22.8 per cent. of deaths. From these figures it will be seen that the total number of deaths in the age group 65 years and over represents 48.4 per cent. of the total deaths compared with 48.3 per cent. in 1938.

Heart disease accounted for 162 deaths and other circulatory conditions for 24 deaths. Deaths from respiratory diseases numbered 61, of which 37 were due to pneumonia.

Deaths from cancer numbered 70. Of these, 15 were in the age group 75 years and over, and 25 in the age group 65-75 years.

Pulmonary tuberculosis accounted for 29 deaths and there were 8 deaths from non-pulmonary tuberculosis.

With regard to infectious diseases the following deaths occurred—measles o, scarlet fever o, whooping cough o, diphtheria 11, influenza 12, cerebro-spinal fever 1.

Suicide accounted for 5 deaths, and other violence for 22 deaths.

The comparison of Chester with the figures supplied by the Registrar-General for England and Wales and smaller towns is set out below.

The crude death rate has been multiplied by the comparability factor supplied by the Registrar-General.

	England and Wales.	Smaller Towns.	Chester.
1939	12.1	11.2	13.8

Our death rates from infectious diseases are given in the following comparative statement:—

J. L	England and Wales.	Smaller Towns.	Chester.
Enteric Fever	. 0.00	0.00	0.00
Measles	. 0.01	0.01	0.00
Scarlet Fever	. 0.01	0.00	0.00
Whooping Cough	. 0.03	0.02	0.00
Diphtheria	. 0.05	0.04	0.24
Influenza	. 0.21	0.20	0.26
Diarrhoea under 2 years (per 1,000 births) 4.6	3.0	4.3

(a) LABORATORY FACILITIES.

There was no change in the Laboratory Services during the year under review apart from the transfer of the monthly chemical analyses of water to the Public Analyst. The total number of specimens examined in the Laboratory during the year was 3,403, which included 223 examinations of the City water supply and 18 examinations of water from the City Baths.

(b) AMBULANCE FACILITIES. No change.

(c) NURSING IN THE HOME. No change.

(d) TREATMENT CENTRES AND CLINICS.

The following clinics are administered by the Local Authority:-

	Situation,	Accommodatio	n.
1.	Maternity and Child Welfare Princess Street Clinic	Waiting room, weight room, consulting in	
2.	Maternity and Child Welfare Curzon St., Saltn Clinic	ey Waiting and weig room, consulting i	
3.	Ante-Natal Clinic Princess Street	Waiting room consulting room	
4.	School Clinic (inspection) ,, School Clinic (treatment) ,,	"	
5: 6.	Ultra Violet Ray Clinic ,,	;; ;;	
7. 8.	Tuberculosis Clinic 2, Kıng's Buildir Venereal Disease Centre Chester Royal Iu firmary	igs - Waitin g , treatment ablution room.	. and
	A Local Committee under the anspices of the and Order of St. John of Jerusalem		ociety
9.	Orthopædic after care Clinic 2, King's Buildin	gs Waiting room a consulting room	
	MATERNITY AND CHILD	VELFARE.	
	1. Princess Street Clinic.—Two sessio	ns are held weekly a	nd a
me	dical officer attends for consultation.		
we	The babies and children under the age ighed and records of progress kept.	of 5 years are regul	arly
	When necessary children and mothers	are seen by the Med	dical
Off	icer.	the been by the late.	
	The following attendances were made of		
(a) by children under 1 year of age			
	(b) by children between the ages of		
	(c) by mothers		
wh	(2) Saltney Clinic.—The same Medical ich meets once weekly.	Officer attends this c	linic
	The following attendances were made	during the year:—	
	(a) by children under 1 year		540
	(b) by children between the ages of		
	(c) by mothers		¹ 574
	The following were the consultations wi	th the Medical Officer	-:
	First visits of children under 1 year	287	53
	Subsequent visits	· ·	53
	Children (1—5 years) fist visits	`	50
	Subsequent visits	· · · · · · · · · · · · · · · · · · ·	
	Mothers (consultations)	38 2	26

A voluntary body—the Chester Infant Welfare Committee have a rota of voluntary workers who attend these clinics and provide tea, etc., for the mothers.

In addition, garments, etc., for babies are provided for necessitous cases.

During the year outings are held for the mothers and teas at Christmas.

The work of this Committee is much appreciated.

(3) Ante-Natal Clinic.—The ante-natal clinic is held once a week under the charge of the Maternity and Child Welfare Medical Officer.

Expectant mothers are examined and advised, and the midwife interested in the case is written to if not present.

During the year the Medical Officer has seen 217 mothers who have paid 482 visits.

Cases were sent to Hospital if requiring special treatment, or if the home conditions were such as to contra indicate home confinement.

An ante-natal clinic is held at the City Hospital.

City Hospital—

Number of mothers seen	315
Number of attendances 10	598
Post-natal attendances	97

The total attendances at ante-natal clinics in the City represents 73 per cent. of total notified births.

- (4) The School Clinic (Inspection) meets every School-day and is in charge of the Deputy School Medical Officer.
- (5) The School Clinic (Treatment) meets on Tuesdays, Wednesdays and Fridays and is under the charge of the same medical officer.
- (6) Ultra Violet Ray Clinic. This clinic is held on Tuesdays and Fridays.
- (7) The *Tuberculosis Clinic* meets on Mondays and Thursdays at 11 a.m. and on Thursdays at 6 p.m.

The number of patients on the Dispensary Register at the end	d
of the year was 23	6
Number of new cases examined9	()
Number of contacts examined	4

Number of attendances at the Dispensary 201
Number of attendances at Cheshire Joint Sanatorium for
refills in artificial pneumothorax
Number of visits of tuberculosis officer to homes
Number of "T.B. plus" cases on the Register 76
Number of visits of nurses to tuberculous persons (including those under Tuberculosis Regulations) 1049
Number of X-ray examinations made

(8) Venereal Diseases Centre: -

The following sessions are held:—

Monday (5-7 p.m.) female.

Wednesday (5-7 p.m.) male.

Thursday (5-7 p.m.) female.

Saturday (12—2 p.m.) male.

The clinic is open all day for irrigations, and trained assistants are in attendance.

The clinic is a joint one for Chester and the Counties of Cheshire and Flintshire.

The following is a table of the work done in 1939—

	Sypi	hilis. F	Gonorrheea.		Conditions other than Venereal.		Total.	
Number of Cases at beginning of year	107	62	215	97	24	18	346	177
Number attending for first time 1939	43	2 6	156	33	20	6	219	65
Ceased to attend or transferred to other centres	8	3	1.5	7		-	23	10
Discharged	8	13	7.5	11	11	24	127	48
Number under treatment at end of year	134	72	281	112		-	415	184

The following is the number of Chester patients attending during the year for the last five years:—

	1935	1936	1937	1938	1339
Syphilis	13	17	22	14	16
Gonorrhea	49	45	28	52	54
Conditions other than					
venereal	3	6	8	11	5

The number of attendances made by Chester patients was 3,241

(9) The Orthopaedic After-Care Clinic meets once a week when the cases are seen by the specialist staff of the Robert Jons and Agnes Hunt Orthopaedic Hospital, Oswestry. During the year 181 cases were under treatment and they made 850 attendances.

The following are details of the cases:—

	On Books 1/1/30 Admitted during 1939		No Treated during 1939	Discharged during 1939	On 1	Attendances during 1030	
Under 5 years 5—10 years 10 years and over	35 54 22	23 21 6	58 75 28	13 15 10	Act ve Treat- ment 45 40	Appliance Super- vision 6	235 412 67
Tubercular Cases all ages)	17	3	20	5	13	2	136
Totals	128	53	181	43	130	8	850

I have to thank most cordially once again the British Red Cross Society and the Order of St. John of Jerusalem whose enthusiasm and help combine to make a success of the clinic.

Much good work is done in after-care of cripples by the Members of these societies.

During 1939 there were 17 Chester patients sent by the Maternity and Child Welfare and Education Committee and the Tuberculosis Officer to the Robert Jones and the Agnes Hunt Orthopaedic Hospital, Oswestry, and 6 remained from 1938.

These patients spent 2982 in-patient days in hospital.

The staff of the Hospital continue to co-operate with the Medical Staff of the Local Authority in the most helpful manner.

(e) HOSPITALS.

					No. of Available	portion used by City	
Name.			Purpose,		Beds,	Residents	. Management,
Chester Royal Infirmary		•••	General	•••	225	4	Voluntary Agency
City Hospital	City	•••	General	•••	202	19	Local Authority
Maternity Hospital	City	•••	Maternity	•••	8	<u>5</u> 9	Voluntary Agency
Cheshire Joint Sanatorium	Market Drayt	on	Pulmonary Tubercule	osis	250	30	Joint Committee
Robert Jones and Agnes Hunt Ortho- predic Hospital	Gobowen	***	Non-Pulmon Tuberculosis and other crippling con ditions		300	18	Voluntary Agency
Isolation Hospital	I mile from centre of Ci		Infectious Disca	ses	6 6	<u>5</u>	Local Authority
Smallpox Hospital	33 73		Smallpox	•••	10		Local Authority
Cheshire Joint Board for Mentally Defection			l Mental Defectives	S	318	10	Joint Board
Liverpool Sanatoriun			Pulmonary Tuberculosis	S	175	1 1 8	Voluntary Agency

The location and amount of bed accommodation for various conditions is given where possible in the following table:—

	Chester Royal Infirmary.	City Hospital.	Isolation Hospital Chester.	Cheshire Joint Sanatorium.	Liverpool Sanatorium Delamere	Cheshire Joint Board for the Mentally Defective	Robert Jones and Agnes Hunt Orthopædic Hospital.
General Medical M		10		_	Between		America.
F		16	- 1	_			-
General Surgical M	"	14		_	_	_	_
Gynæcological F	1)-	10			_		
Oblidance.	1 -6			_	_		_
Maternity		40 36					
Venereal Diseases M	1	30				_	_
,, F			_			-	_
Tuberculosis Pulmonary M		-		4	*6‡	di di salaman	_
,, ,, F		_		4*	* - ‡		_
,, Children			_	******	*2+		
Tuberculosis Non-Pulmon. M	_	_			_		†
Children	į.		_				+
Chronic Sick M		22					
T	-	32					
Orthopædic M	10			_	_		+
F	6			_		_ /	†
Ear, Nose and Throat M	5	†			-		_
F	5 5	<u> </u>	_	-		_	_
Ophthalmia Neonatorum Ophthalmic M	— T	— Ţ	_				
r	6	T		_		-	-
Infections Diseases	_ 0		66				
Mental Defectives M						12	_
T			_ \	_	_	20	
Isolation Wards F	1	10	_	_	_		_
Private Wards	22				-		_
Other	-	6	-		- }	1	

^{*} Beds used by Chester County Borough. † Beds given as required. † Extra Beds provided if necessary.

Chester City Hospital.

During the year a visiting Orthopaedic Surgeon was appointed. The following statistics shows the work done:—

The number of admissions, etc., has shown an increase.

	1935	1936	1937	1938	1939
Admissions	1377	1529	1832	2017	2325
Births	I 20	173	195	270	410
Discharges	1201	1362	1578	1808	2059
Surgical operations	r 56	270	330	356	369

Statistics for the year ended 31st December,	1939.—	
	1939	(1938)
Number of Admisions	2325	(2017)
Number of women confined in hospital	404	(268)
Number of live births	378	(253)
Number of still births	32	(17)
Number of deaths among newly born	18	(9)
Total number of deaths under 1 year	17	(38)
Number of maternal deaths	nil	(3)
Total number of deaths	256	(235)
Total number ofd ischarges	2059	(1808)
Duration of stay—		
(a) under 4 weeks	1665	(1464)
(b) 4 to 13 weeks	462	(402)
(c) 13 weeks and over	188	(177)
Average number of beds occupied	170	(168)
(a) highest 198 11/3/39	(191)	(29/1/38)
(b) lowest 67 9/9/39	(110)	(13/8/38)
Surgical operations under general anaesthetic	369	(356)
Number of abdominal sections	91	(99)

ISOLATION HOSPITAL.

On January 1st, 1939, 23 patients were in hospital. During the year 452 patients were admitted, 382 discharged, 20 died, and there remained in hospital on January 1st, 1940, 73 patients.

The number of admisions shows a decrease of 71 from 1938.

City cases numbered 291, while the remainder (161 came from other authorities.

Scarlet Fever.

190 cases were admitted to the Scarlet Fever Ward. Of these 161 were diagnosed as suffering from scarlet fever (City cases 93), 13 were re-diagnosed as suffering from other conditions, and 16 were complicated with other diseases.

There were no deaths.

Diphtheria.

Cases of diphtheria numbered 197 of which 141 were City cases.

Included are 6 City and 5 outside cases of nasal diphtheria. 4 City contacts, and 8 diphtheria carriers 3 of whom were Cit yeases.

In addition 35 cases were admitted as diphtheria and subsequently rediagnosed as other conditions.

Deaths from diphtheria numbered 14, 10 City and 4 from other areas.

6 cases died within 24 hours of admission.

3 cases were laryngeal cases.

The following is a detailed statement of the deaths in hospital:-

	City	Other	Total
Diphtheria	10	4	14
Cerebro-spinal fever	I		1
Marasmus	I		1
Neoplasm of spinal cord	I		1
Streptococcal meningo encaphalitis and			
mastoiditis	I		I
Tuberculous meningitis	I		I
Bronchitis and broncho-pneumonia	I		I
Totals	16	4	20

The following table gives details of the admissions:—

1939.	1	Scarlet Fever.	Diph- theria.	Para Typhoid Lever.	Rubella,	l'onsil- litis.	Measles	Ery- sipelas	Cer e bro Spinal Fever	Other Con- ditions	Total.
Chester	•••	111	141	I		3	2	5	+	24	291
Tarvin Hoole		2 I 52	36	2	•••	•••			•••	9 2	11 92
Hawarden Flint		 I	2	• • •	• • •	•••	• • •	•••	•••	•••	2 I
Military Other	• • •	5	1 2	• • •	I	•••	• • •	•••		7	17 5
Total	•••	190	197	3	I	3	3	6	+	45	452

Nineteen cases for cleansing due to impetigo or scables were admitted from evacuees from Chester and District.

The cubicle isolation block proved very useful in dealing with the various infections encountered during the year.

After the outbreak of war, owing to evacuation, cases of infection such as mumps and rubella not usually admitted to hospital were treated.

(1) LOCAL GOVERNMENT ACT, 1929.

No further step has been taken to make a declaration under this Act.

(2) POOR LAW MEDICAL OUT-RELIEF.

(3) INSTITUTIONAL PROVISION FOR THE CARE OF MENTAL DEFECTIVES.

The total accommodation available for Chester patients in Cranage Hall is as follows:—

High Grade female	18
High Grade male	10
Lowest Grade female	2
Lowest Grade male	2

Total ... 32

There are still Chester patients in Instuition sin various parts of the country. These cases will be transferred to Cranage on further extensions being completed.

3. (1) MIDWIFERY AND MATERNITY SERVICES.

The work of the maternity unit at the City Hospital has again shown an increase. In comparison with 268 cases delivered in 1938, the number of women confined in the hospital was 404.

Sixteen cases of puerperal pyrexia were notified.

The number of maternal deaths was 3.

The causes of death were as follows:-

- 1 Post Partum Pulmonary Embolism.
- 2. Paralytic ileus, Caesarean Section.
- 3. Uterine Haemorrhage, Caesarean Section.

There were 32 still births and fifteen deaths of infants within ten days of birth.

Prematurity, 9.
Asphyxia Pallida, 1.
Intracranial Haemorrhage, 1.
Asphyxia neonatorum, 1.
Traumatic intra cranial haemorrhage, 1.
Melaena neonatorum, 2.
Complete spina bifida, 1.

Municipal Midwifery Service.

There are five municipal midwives employed by the Corporation. During the year they attended 327 cases as midwives and 56 cases as maternity nurses.

Under the provisions of the Midwives Act the Local Authority paid the whole or part of the doctor's fee when called in an emergency by the midwife in 94 cases, a decrease of 5 from last year.

Artificial Feeding. 20 notifications were received during the year.

Total number of births notified
Cases attended and delivered by doctors
Cases attended in nursing homes
Cases attended and delivered by midwives
Cases attended in hospitals 445
Number of still births

Of the 331 births attended by midwives, in 96 cases some condition arose requiring the calling in of Medical help either for the mother or infant. This is an increase of 2 from last year.

The reasons for requiring help were as follows:-

Feebleness of child
Prolonged labour or malpresentation
Complications before labour
Complications during labour
Complications after labour 4
Rise of temperature 10
Discharge from the eyes 4
Lacerated perinaeum
Abortion 1
Prematurity
Skin eruption
Abnormality of child

(iii) INSTITUTIONAL PROVISION FOR MOTHERS AND CHILDREY.

The accommodation at the City Hospital is adequate for the needs of the City.

During the year accommodation was available for healthy children up to the age of 3 years in the City Hospital, and over 3 years such children are accommodated in the Children's Home, Wrexham Road, Chester.

Marasmic and ailing babies are admitted to the Children's Ward at the City Hospital.

(iv) HEALTH VISITORS.

The number of health visitors is six.

The Health Visitors made the following visits:-
Primary Births Visits
Return Visits
Visits to Children (1—5 years
Visits to Expectant Mothers
Other visits 1226
Visits to Midwives

The visits to cases of tuberculosis are shown elsewhere in the report.

(v) 1NFANT LIFE PROTECTION (CHILDREN AND YOUNG PERSONS ACT, 1932).

This Act is administered by the Maternity and Child Welfare Sub-Committee of the Public Health Committee.

The register is kept in the Public Health Department where all notifications are sent.

The number of children on the register at the end of the year was 16.

DENTAL TREATMENT.

Dental Treatment was provided for nursing and expectant mothers. The treatment is either free, or subject to part payment, according to the means of the family.

Nine cases were treated during the year.

Children under five are treated as the school Dental Clinic.

ORTHOPAEDIC TREATMENT.

As in former years this has been carried out by the Orthopaedic After-Care Committee and the Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry. Fuller details of this work will be found elsewhere in the report.

MILK (MOTHERS AND CHILDREN) ORDER, 1918.

Under this order milk was supplied to 3,168 applicants of whom 168 were first applications.

The Milk Marketing Board scheme for the supply of milk to mothers and children under five years of age came into operation on the 16th December, and from then until the end of the year the following numbers received milk:—

Free—116.
1d. a pint—7.
2d. a pint—10.

An extra clerk was appointed to carry out this scheme on account of the increase in work involved.

NURSING HOMES.

The number of nursing homes registered at the end of 1939 was 7.

The following table gives particulars:—

	Number of Homes	Number of Patients provided for:— Maternity Other Tota				
Homes first registered during year		_	_			
Homes on register at the end of the year	7	13 definite plus unallocated number	40	53		

Eighteen inspections were made during the year.

SANITARY CIRCUMSTANCES OF THE AREA

1. WATER.

Chester continues to have an abundant water supply. Since the adoption of modern methods of purification the standard of purity obtained has been remarkably good; when one considers that the water is obtained from the River Dec.

The standard taken is the absence of bacillus coli from 100 c.c. of water.

On no occasion during the year has bacillus coli been found in the water as supplied to the consumer.

The water in addition to hi-monthly bacteriological examinations is examined chemically once a month.

The results of the chemical analyses for the year are as follows:-

CHEMICAL ENAMINATIONS OF CITY WATER SUPPLY, 1932.

Mar.	1.8 .0017 .08 .08 3.2 8.+	
Feb.	2.8 .008 .011 .0449 4.6 10.6	
Jan.	90012 0003 0003 000 0000 0000 0000 0000 0	
	Chlorides as Cl Free Animonia as NH ₃ Albuminoid Animonia as NH ₃ Oxygen absorbed in 3 hours at 37°C Hardness—Temporary Hardness—Permanent Rardness—Total	

	Nov. Dec.	15.0 0.05 1.8 1.8 0.07 0.00 0.007 0.007 0.007 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1
-	Oct.	28.0 0.12 4'1 0'05 Nii Nii
1	Sept.	26'0 0'12 4'1 0'06 Nil 0'007 Nil
	Aug.	0.10 0.10 1.6 0.104 Nil 0.004 Nil
	'xjnf	18.0 0.10 1.9 0.07 Nil 0.005 Nil
	June.	31.0 0.2 3.4 0.036 Nil 0.004 Nil
	May.	27.0 0.12 1.6 0.004 Nil 0.0004 Nil
	April.	19'0 0'20 1'7 0'06 Nil 0'004 Nil
	Parts per 100,000 of Water	Total Solid Matter in Solution Nitrogin in Nitrates and Nitrites 17 Chlorine and Chlorides 17 Oxygen absorbed from Permangurate in 4 hours at 80° F 0°06 Free and Saline Ammonia Nil Albuminiod Ammonia Nil Lead, Copper, Zihc Nil Microscopical Examination of Sediment Ni

DRAINAGE AND SEWERAGE.

The construction of sewers in Blacon was further advanced during 1939 and at the year end considerable progress had been made. It is anticipated that the sewers throughout the main roads will be completed during 1940.

CLOSET ACCOMMODATION.

As the sewers were being completed through the roadways in Blacon, adjoining property owners immediately put in hand the work of connecting the drains of their houses with the sewers. 48 houses were so drained and their cess-pools abolished. This work is proceeding very satisfactorily.

SANITARY INSPECTION OF THE AREA.

The following is a classified statement of the work done in the Sanitary Department during the year:—

Complaints in respect of nuisances
Visits in respect of nuisances
Rooms disinfected after infectious diseases
Rooms disinfected for other purposes
Investigations into Infectious Diseases
Matters referred to City Surveyor
Tests applied to drains
drains found defective
drains round derective
The second secon
insufficient drainage or additional drainage
drainage systems re-constructed
Ashbins provided
Inspection of Schools
Inspections of Canal Boats
Inspections of Factories
Inspections of Dairies, Cowsheds and Milkshops
Inspections of Slaughterhouses
Inspections of Butchers' shops
Inspections of Fishmongers' shops
Inspections of other food shops 1006
Inspections of Offensive Trade Premises
Inspections of Caravans48
Smoke observations 43
House to house inspections
Visits to Common Lodging Houses
Dwellings, Inspections and Re-inspections 3645

Visits in respect of Rat Nuisances	743
Visits of Licensed Victuallers Premises	146
Visits under Shops Act, 1934	145
The following notices were served for the abatement of nuisances	:
Intimation	433
Statutory	24

HOUSING.

In February, 1939, official representations were made in regard to the following Clearance Areas:—

Situation of Area	No. of Houses.	•	No. of Lock-up Shops & other Buildings	Total Premises
Chrisleton Road, No. 1 Area	14	2	I	17
Christleton Road, No. 2 Area	I	I	3	5
The Mount, Boughton Area	17	3	4	24

The Public Inquiry arranged by the Minister of Health in respect of these Areas was to have taken place on 26th September, 1939, but was cancelled on the outbreak of hostilities.

On 5th September, 1939, official representations were made in respect of the Clearance Areas set out below. These representations were withdrawn by leave of the City Council at their meeting on 27th September, 1939. This action was taken as a result of a letter from the Minister of Health dated 8th September, 1939.

Situation of Cleurauce Area	No of Houses.
Charles Street	24
Edwards Court, Duke Street	6
Jones's Court, Greenway Street	5
Nield's Buildings	I 2
Oulton Place	8
Park Terrace	6
Prince's Court, Trafford Street	17
Ring O' Bells Entry	4
Union Terrace, Canal Side	8
Victoria Buildings, Lower Bridge Street	9
Watkins Court, Pitt Street	8
Total number of houses	107

During the year 51 houses have been demolished. Forty-six of these houses were suituate in the Princess Street Clearance Areas and

five in Walton's Court, William Street which, as individual houses, were subject to Demolition Orders. All the tenants of the houses were provided with alternative accommodation.

A review into th ecircustances of overcrowding was found to be inopportune.

FOOD AND DRUGS ACT, 1938.

ANA	LYSE	S,				
	Numb	er Exa	mined	No. Adultera ed.&c		
Article.	Formal	In- formal	Total	Formal	In- formal	Total
Milk	71	4	75	14	3	17
Jams		4	4			
Marmalade		3	3			
Tea		3	3			
Margarine		6	6			
Butter		3	3		• • •	
Olive Oil		2	2			
Camphorated Oil		2	2			
Glycerine		I	I			
Aspirin		2	2			
Castor Oil		1	1			
Sweets		6	6			
Fish Pastes		3	1 3			
Coffee		2	2	• • •		
Cream (Tinned)		4	4			
Peas (Tinned)		2	2			
Custard Powder		3	3			
Flour, Plain		2	2			
Flour, Self-Raising		2	2			
Baking Powder		1	I		·	
1 ard		2	2			
Beer		6	6			
Ice Cream		4	4			
Condensed Milk		3	3			
Bread		3	3			• • •
Rice		2	2		•••	
Cream (Fresh)		2	2			
Mincemeat		3	3			
Pepper		2	2			
Fruit Wine		I	1			
Peppermint Cordial		ĭ	ı			
Iodine and Blackcurrant Pastilles		1	1		ī	1
Chloro Tablets		I	1			
Mixed Fruits		2	2			•••
Whisky	2		2			
Rum	2		2	}		
Port	2	•••	2	1		
Tomatoes (Tinned)		2	2			
Ground Ginger		2	2			•••
Peas (Dried)		I	ĭ			• • •
Strawberries (Tinned)		I	I			
Sardines		I	I			
Candied Peel		2	2			•••
Liquorice Powders		2	2			•••
Sausages		3	3		• • •	•••
Total	77	103	180	14	4	18

Milk.

Total samples analysed, 75.

Number of samples below standards (Fat 3 per cent., Solids not fat 8.5 per cent.)—17 or 22.6 per cent.

Averages—Fat, 3.54 per cent., Solids not fat, 8.7 per cent.

The circumstances relating to samples certified to be "not genuine" are set out in the following schedule of administrative action—

No. of Sam- ple.	Article.	Result of Analysis.	Action taken.
20	Milk	8.3% deficient in fat, also slightly below standard for solids-not-fat. No added water. Freezing point normal.	
26 27	Milk Milk	5% deficient in fat and slightly standard for sol- ids-not-fat. No added water. Preezing point normal.	(Taken in course of delivery). Compare with No. 20.
28	Milk	8.3% deficient in fat.	"On delivery" to compare with No. 20.
29 30	Milk Milk	Below standards for fat and solids-not-fat.	"Al peal to Cow" samples. Compare with Nos. 20, 26, 27. Freisian herd. Letter sent to Producer calling attention to results of analyses.
34	Milk	5% added water by freezing point test.	"Sterilized" Bottled Milk. Warning let- ters sent to Vendor and Producer.
47	Milk	10% deficient in fat.	Legal Proceedings—Case dismissed. Costs imposed £1 14s. 0d.
40	Milk	5% deficient in fat.	Legal Proceedings—Case dismissed. Costs imposed £1 14s. 0d.
68	Milk	10% deficient in fat.	Mixed Milk. Equal parts own cattle and Producer of No. 1355.
1352	Milk	3° deficient in fat.	"On delivery" to compare with No. 68.
1355	Milk	2.55% fat.	"Appeal to Cow." From Producer selling milk to Vendor of No. 68. Warning letters sent to Vendor and Producer.
112	Milk	Contained 5.9% added water confirmed by freezing point test.	Letter sent to Vendor.
124	Mik	Contained 6% of added water.	Sterilized milk in bottle.
129	Milk	Contained 7% of added water.	
130	Milk	Contained 5% of added water.	In course of delivery to compare with No. 124.
131	Milk	Contained 7% of added water.	
		The addition of water confirmed by the freezing point test.	Legal Proceedings instituted. Fined £3 and costs £2 12s. 6d.
144 (In- for- mal	currant	Contained only a very slight trace of iodine.	Further formal samples to be taken.

MILK (SPECIAL DESIGNATIONS) ORDERS, 1936 AND 1938.

The following licences were issued during the year:—	
Producers Liences—"Accredited"	7
Pasteurisers Licence	Ţ
Supplementary Licences to Sell:—	
"Certified" Milk	3
"Accredited Milk",	2
"Pasteurised Milk"	1

EXAMINATION OF MILK FOR TUBERCULOSIS.

During the year 32 samples were submitted to the Pathological Department, Chester Royal Infirmary. Of these 4 (or 12.5 per cent.) proved to contain tubercle bacilli. Three of the positive cases were from farms outside the City and one inside the City boundary. Results of the tests were forwarded to the appropriate officers and subsequent reports showed successful action had been taken to climinate the affected animals.

WHOLESALE DEALERS IN MARGARINE.

Three names were added to the Register of wholesale dealers in margarine under Section 34 of the Food and Drugs Act, 1938.

RAG FLOCK ACTS, 1911 AND 1928.

Two samples of flock were submitted for analysis and were certified to contain 12 and 25 parts per 100,000 of chlorine respectively.

The standard for chlorine is 30 parts per 100,000.

SLAUGHTER OF ANIMALS ACT, 1933.

The following "licence	cest o sl	aughter'	were issu	red:—	
New Licences	• • • • • • • • • • • • • • • • • • • •				4
Renewal Licences			• • • • • • • • • • • • •		53
Slaughtering in the City.					
Place.	Cattle.	Calves	Sheep.	Pigs	Total.
Public Abattoir	2006	599	10033	1535	14173
Private Slaughterhouses	0101	172	5125	828	7135
Total	3016	771	15158	2363	21308

For the purposes of food inspection the following visits were made to:—

Slaughterhouses (not including Abattoir) 1625	,
Butchers' shops	,
Fishmongers' shops	ļ
Other food shops, stores, etc)
Total 4203	5

Unsound Food.

Article.		No.	Reason.
BEEF, Carcases and Offal Carcase and Offal Portions of Carcases (qu		39 1 33	Generalised Tuberculosis. Septicaemia. Localised Tuberculosis.
VEAL. Carcase and Offal		1	Umbilical Pyaemia.
PORK. Carcases and Offal Carcase and Offal		7	Generalised Tuberculosis, Febrility, Jaundice,
Carcases and Offal Carcase and Offal		2	Oedema Pneumonia. Febrility.
VISCERA AND ORGANS	5 (lbs)		Localised Tuberculosis, Parasitic and other conditions.
MISCELLANEOUS. Imported Beef (lbs.) Fruit, Vegetables, Fish, Fish, various (lbs.) Sausages (lbs.)	etc. (tins	593 556 2050 41	Bone Taint, etc. Decomposition, etc.
Mushrooms (lbs.) Bacon (lbs.) Imported Lambs' Livers Fish Cakes (lbs.)	(tins) .	25 54 6	11 11 11 11 11 11 11 11 11 11 11 11 11
Corned Beef (tins) In ported Eggs (tins) Jellied Veal (tins) Cream (tins)		·· 4 ·· 3 ·· 3	11 21
Ox Tongue (tins) Turkey (carcases) Ham (tins) Corned Pork (tin)		2 2 2	11 11 11 11 11 11 11 11 11 11 11 11 11
Yeast (tin) Mangoes (case)		1 1	1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1

Total estimated weight condemned—21 tons 7 cwts. 3 qrs.

Prevalence of, and Control over, Infectious and other Diseases,

The notifications of infectious diseases during the fifty-two weeks ended 31st December, 1939, are as follows:—scarlet fever 123, diphtheria 135, enteric fever 0, pneumonia 36, erysipelas 7, puerperal pyrexia 24.

The notification of infectious disease per 1,000 population is as follows:—

	Enteric Fever	Scarlet Fever	Diphtheria	Pneumonia	Erysipelas
England and Wales	0.04	1.89	1.14	1.02	0.34
Smaller Towns	0.04	1.78	1.16	0.89	0.31
Chester	0.00	2.7	2.0	0.79	0.15

The rates for puerperal pyrevia are best expressed per 1,000 total births.

	England and Wales	Smaller Fowns	Chester
Puerperal pyrexia	14.35	12.99	32.9

Immunisation against diphtheria was carried on during the year.

Total number of children immunised during the year was 223. Of this number 65 were pre-school and the remainder of school age.

In addition, 64 children were posterior schick tested. All were negative.

The arrangements for the supply of diphtheria anti-toxin for use in emergency and necessitous cases remains as before. A medical practioner can obtain at any hour, day or night, a supply of anti-toxin from the Town Hall.

Similarly throat swabe from suspect cases of diphtheria can be sent to the Town Hall after office hours. The Medical Officer of Health, or his Deputy, are informed of the message and place the swab on the appropriate medium, incubate overnight, and a report is issued to the medical practitioner in the morning.

Delay in the investigation of a case is thus reduced to a minimum. This facility is available on Sundays in addition.

BLIND PERSONS ACT, 1920.

The care of the blind in Chester has been delegated to the Chester Society for the Home Teaching of the Blind. The Local Authority has adopted a scheme for regulating the financial assistance given to them an dtheir position has been improved during the year. A general

supervision of the work of the Society in Chester is undertaken by the Local Authority and the homes of the blind visited and their comfort seen to as far as possible. The Local Authority have two representatives on the Committee of Management.

There were 89 persons on the register at the end of the year and the Local Authority paid to the Society £3167 in the year, and have estimated £3411 for the current year. There have been 13 licences issued for wireless sets to blind people.

The Health Visitors paid 221 visits to Blind Persons during the year.

OPHTHALMIA NEONATORUM.

Market and	Cases 7		Vision	Vision	Total	Death
Notified	At Home.	In Hospital	Unimpaired.	Impaired.	Blindness.	Deaths.
1	Minima Start	1	1	_		

PUBLIC HEALTH ACT, 1925, SECTION 66.

A scheme under this section was approved by the Ministry of Health in 1937.

TUBERCULOSIS, 1939.

Particulars of new cases of tuberculosis and mortality during 1939 are given below:—

				NEW	CASES.			DEA	THS.	
		ļ	Respi	ratory	Non-Re	spiratory.	Respi	ratory.	Non-Re	spiratory.
Ag	e Periods.	•	Males	Females	Males	Females	Males	Females	Males	Females
0			I	0	, O	0	0	0	I	0
1	• • •		0	I	0	0	0	I	0	0
5—	• • •	• • •	0	I	2	0	1	0	2	0
15-	• • •		5	2	O	I	2	0	2	I
25—	• • •		3	5	O	0	3	2	0	I
35—			6	1	0	1	I	I	0	0
45-			6	0	1	1	5	0	0	0
55—			7	1	I	0	9	0	1	0
65 and	upwar	ds	I	2	0	0	I	3	0	0
1	otals		29	13	4	3	22	7	6	2

3 deaths occurred during the year in non-notified cases.

PUBLIC HEALTH (PREVENTION OF TUBERCULOSIS) REGULATIONS, 1925.

There has been no occasion to act on this regulation.

C

IJ

Total Deaths Cases admitted to Isolation Hospital. III C under 2. under 3 | under 4 | under 5. under 10. under 15. under 25. under 45. under 65. 1939. DISEASES DURING THE YEAR 0 ! 2nd 10, NOTIFIABLE S Under 1 year, a : : : Acute Anterior Poliomyelitis Ophthalmia Neonatorum Encephalitis Lethargica Cerebro Spinal Fever Puerperal Pyrexia DISEASE. Whooping Cough Para Typhoid ... Scarlet Fever Typhoid... Pneumonia Measles ... Diphtheria Erysipelas Small Pox Malaria

CLEANSING AND DISINFESTATION OF VERMINOUS PERSONS AND THEIR BELONGINGS.

A shampoo station is freely used for the cleansing of heads of school children. In cases of body vermin, which are fortunately few, they are treated at the Disinfecting Station at the Isolation Hospital, where clothes and bedding are also treated. Occasionally we are asked to deal with an adult, who is dealt with in a similar fashion.

CANCER.

Facilities for the Diagnosis and Treatment of Cancer are available at the Chester Royal Infirmary which is equipped with Radium Deep X-Ray Therapy and Endo-diathermy supplied by the Cheshire and North Wales Group Executive of the British Empire Cancer Campaign.

The Radium Department was opened in 1930 and Dr. Ralston Paterson of the Christie Hospital and Holt Radium Institute, Manchester, acts as consultant.

Cases of eancer are sent from the City and surrounding areas. Beds are available for in-patient treatment in the Royal Infirmary

City Cases can be admitted to the City Hospital administered by the Local Authority, but only operative treatment can be undertaken and if Radium or Deep X-Ray Therapy is necessary, cases may be transferred for treatment in the Royal Infirmary.

DEATHS FROM CANCER IN 1939.

	Age 1	Periods.			Males	Fe- Male
0	• • •		• • •	• • •		
I	• • •					• • •
5	• • •	• • •			• • •	
15		• • •	• • •	• • •	•••	
25				• • •		
35	,			* * *	2	3
45	• • •				5	6
55					4	10
65					11	14
75 and	upward s			* * •	L	II
				Totals	26	44

CITY AND COUNTY OF THE CITY OF CHESTER.—Causes of, and Ages at Death during the Year 1939.

			NET DE	NET DEATHS AT THE OCCURRING		SUBJOINED .	SUBJOINED AGES OF WITHIN OR WITHOUT		"RESIDENTS" THE DISTRICT.	"RESIDENTS" WHETHER THE DISTRICT.	~	
CAUSES OF DEATH.	At	At all Un Ages. 1 y	Under 1 and 1 year, under	d 2 and under 5.	5 and under 15.	15 and under 25.	25 and under 35.	35 and under 45	45 and under 55	55 and under 05	65 and under 75	75 and up-
						ALL	CAUSES					
1 Typhoid and Paratyphoid Fevers	.:	:	:	:	:	:	:	:	:	:	:	:
2 Measles	:	<u> </u>	:	:	:	:	•		:	:	:	:
3 Scarlet Fever	:	· -	:	:	:	:	:	•	:	:	:	:
Whooping Cough	:	· :	:	:	:	:	:	:	:		:	:
	:	· -	:	9	10	:	:			: '	: '	:
	:	12	:	:	:	-	:	:	_	m	7	-† (
	:	61	:		:	:	:	:	:	: '	:	7
8 Cerebro-spinal fever	:		:	: '	: •	. (: 1	: (: "	-	: (: 1
	:	_	:	-	- (OI C	Λ·	ų	n	<u></u>	2	-
10 Other Tuberculous Disease	:	c .	:	;	7	0	-		: -	-		
	:	_	:	:	:	:	:	_	٦ ,	: -	:	:
	:	_	:	:	:	:	:	: 1	7 -		: 11	: 1
	:	0/2	:	:	:	:	:	C.	-	†	Ç 1	۲
	:		:	:	:	:	: -	:	r	: 4	n :	## F
15 Cerebral Haemorrhage, etc	:	·	:	:	: '	: .	- (: -	η,	10	+ -	1.1
			:	:	_	_	N	-		200	10	ŧ.
17 Aneurvsm	:	_	:	:		:	:	:	٦	: '	7 9	- (
	:	24	:	:	:	:	:	:	: '	+ (0 (2 9
19 Bronchitis	:		:	:	:		: '	:	Ct .	C\$ (٠,	0 1
20 Pheumonia (all forms)	:	57	† 	(C)		-		:	चे (7 -	:	r. ·
21 Other Respiratory Diseases	:		:	:	:	:		: '	m (- (:	- (
22 Peptic Ulcer	:		: '	:	:	:	-	-	N	7	:	N
23 Diarrhea, etc	:	C,	7	:	:	: '	: -	: +	:	: -	:	:
24 Appendi itis	:		:	:	-	_	_	-	:	-	: 1	:
	:	C₁	:	:	•	:	: -	_	:	: (:
	:	-+	:	:	:	:	_	:	:	24 (- ·	
27 Other Digestive Diseases		1\	: 	:	:	:	:	: '	C1	~4 I	ni e	: '
28 Acute and Chronic Nephritis	:	٠.	:	:	:	:	: '	-	r,	r,	1	7
20 Puerperal Sepsis	:	-	:	:	:	:		: '	:	:	:	:
30 Other Puerperal Causes 31 Congenital Debility, Premature Birth, Malform		m	:	e e e	:	7	:	-	:	:		:
	:	31	30	:	I	:	:	:	:	:	:	1.1
•	:		:	:	:	:	:	:	;		_	9
Suicide	:	_	:	:	:	:	-	:	perel	:	er,	
Other Violence	:		I	_	 	:	CI	_	-	ır,		10
Other Defined Diseases			3	_	10	4	P	_	9	_	01	tis.
36 Causes ill-defined or unknown	:	0	:	:	:	:	:	:	:	:	:	:
	119	i	0.	5	191	u -	10	16	0.5	11.7	140	157
•••	:		+6)	<u> </u>						

Vital Statistics of Whole District during 1939 and previous years.

			BIRTHS		TOTAL DRATHS REGISTERED) KATHS ERED	TRANSF	TRANSFERABLE DEATHS	NETT DEA	NETT DEATHS BELONGING TO THE DISTRICT	G TO THE I	DISTRICT
YEAR	Population estimated to	>	Nett	‡	THE DISTRICT	STRICT	Of Non-	Of Resi-	Under 1 Y	Under 1 Year of Age	At all Ages	Ages
	Year	corrected Number	Number	Rate	Number	Rate	residents registered in the District	dents not registered in the District	Number †	Rate per 1000 Nett Births	Number	Rate
I	2	3	थ	2	9	7	ø	ō	IO	11	12	13
1929	40,920	805	707	17.25	689	16.83	211	148	55	77.7	020	14.3
1930	016,0+	208	299	16.3	919	15.5	172	1+1	84	96.12	585	13.60
1691	41,380	299	129	11.91	595	14.37	961	147	46	68.5	246	12.47
1932	41,350	\$04	989	2.91	592	14.31	205	150	37	53.6	537	12.08
1933	41,070	869	590	t.†1	909	14.7	200	136	40	2.29	542	13.10
1934	40,800	795	654	0.91	613	15.0	248	172	47	21.8	533	13.06
1935	40,500	672	292	0.†1	621	15.3	252	183	43	75.8	552	9.81
1936	, 45,131	852	663	1.5.1	754	1.21	267	73	34	51.3	009	6.81
1937	44,610	882	656	14.7	845	6.81	248	37	39	9.69	634	14.7
1938	44,360	299	644	14.5	813	18.3	237	25	84	74.3	109	14.0
1939	44,280(B R.) 45.090 (I.M.)	1031	728	15.6	828	1.91	217	0	54	77.3	011	13.8

Area of District in acres (land and inland water), 4,142

No. of inhabited houses, 11,951,

* Total deaths occurring in Chester whether of residents or non-residents.

† Births and deaths corrected for those births and deaths properly belonging to Chester, but occurring outside the District, or occurring in the District but properly belong outside.









